

19970920.ba v01_n683.bam.970920 v01_n684.bam.970920

>From ???@??? Sat Sep 20 10:32:14 1997
Message-Id: <199709200502.AAA11502@sco.theporch.com>
Date: Sat, 20 Sep 1997 00:02:04 CDT
Subject: BOATANCHORS digest 1683

BOATANCHORS Digest 1683

Topics covered in this issue include:

- 1) NATIONAL HRO DIAL
by arc5@ix.netcom.com
- 2) Re: NATIONAL HRO DIAL
by Bob Roehrig <broehrig@admin.aurora.edu>
- 3) Re: NATIONAL HRO DIAL
by Jim Garland W8ZR <4CX250B@miavx1.acs.muohio.edu>
- 4)
by Bob Roehrig <broehrig@admin.aurora.edu>
- 5) Re: NATIONAL HRO DIAL
by berg stephen erik <z931086@corn.cso.niu.edu>
- 6) INFO on Raytheon CK534 Submini Tube
by MAB@delphi.com
- 7) Re: Best BA RX is under the table
by Ed Tanton <n4xy@bellsouth.net>
- 8) RE: Wanted UTC LS-6L4
by "Chuck O'Neal" <coneal@ultranet.com>
- 9) National HRO (PW) dial
by Sandy W5TVW <ebjr@worldnet.att.net>
- 10) Heath SG-8
by avidov@juno.com (avi aben)

Date: Fri, 19 Sep 1997 20:51:34 -0500 (CDT)
From: arc5@ix.netcom.com
To: boatanchors@sco.theporch.com
Subject: NATIONAL HRO DIAL
Message-ID: <1997919181240623281@>

Can anyone tell me how this HRO-style dial on my RCE is supposed to work? It's a bakelite knob screwed onto a large, gray skirt with calibration ticks and windows. There are numbers in the windows and I assume they're supposed to change as you rotate the dial through 360 degrees.

The rig is real pretty gray inside. There's a

National gear drive on the tuning cap. If the larger part of the tuning shaft is supposed to drive the counter, it ain't working. I removed the knob and couldn't get the number disk to turn at all. There seems to be some type of clockwork inside the dial but I don't see any way of turning it. If there is supposed to be anything other than the main tuning shaft engaging this thing, I sure don't see it.

Thanks,
Dave Stinson AB5S

Date: Fri, 19 Sep 1997 21:07:49 -0500 (CDT)
From: Bob Roehrig <broehrig@admin.aurora.edu>
To: arc5@ix.netcom.com
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: NATIONAL HRO DIAL
Message-ID: <Pine.ULT.3.96.970919210419.24398A-100000@admin.aurora.edu>

On Fri, 19 Sep 1997 arc5@ix.netcom.com wrote:

> Can anyone tell me how this HRO-style dial on my RCE
> is supposed to work?

Dave, sounds like what you have is the famous PW dial. The hole on the back of the knob assembly is supposed to ride on the gear box housing where the shaft comes out. You will notice that the shaft is not centered in this housing. In that way, as you rotate the knob, the large gear on the back of it rotates within the teeth on the front knob piece.

E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL
630-844-4898 Fax 630-844-5530

Date: Fri, 19 Sep 1997 22:20:25 -0400
From: Jim Garland W8ZR <4CX250B@miavx1.acs.muohio.edu>
To: boatanchors@theporch.com
Subject: Re: NATIONAL HRO DIAL
Message-ID: <v0300780cb048e08075e7@[134.53.65.12]>

>Can anyone tell me how this HRO-style dial on my RCE
>is supposed to work? I removed the knob and
>couldn't get the number disk to turn at all. There seems
>to be some type of clockwork inside the dial but I
>don't see any way of turning it. If there is supposed
>to be anything other than the main tuning shaft
>engaging this thing, I sure don't see it.
>
>Thanks,
>Dave Stinson AB5S

Hi Dave,

The HRO dial [in my opinion] one of the most elegant engineering accomplishments of any receiver, ever. The beauty of the HRO dial is its simplicity, as opposed, say, to the gearing in the R-390 or R-390A -- also beautiful, but for different reasons. Whoever figured out the HRO dial was a mechanical genius!

I've studied the HRO dial, but am still not completely sure how it works. Here's the general idea, however. Look closely, and you'll notice that the hole through the shaft bearing is slightly off center. It's this asymmetric hole that causes the knob, when turned, to step through the internal gearing in the knob, thus advancing the numbers. In some ways, its similar to the (much simpler) dial drive in the KWM-2 transceiver. In the KWM-2, there are two plastic gears that advance the dial numbers. The gears have slightly different number of teeth, and when one turns, it "slips" the other, causing the dial numbers to advance.

Try removing the shaft and wedging your finger in the hole in the bearing. If you turn the knob, using your finger as a shaft, you can see the numbers advance.

I'm sure there must be some HRO dial experts on the List. I hope they step forward with a more complete description.

73,

Jim Garland W8ZR

Date: Fri, 19 Sep 1997 21:14:07 -0500 (CDT)
From: Bob Roehrig <broehrig@admin.aurora.edu>
To: Boatanchors <boatanchors@sco.theporch.com>,
 glowbugs <glowbugs@www.atl.org>

H:Heater, C:Cathode, n:no connection : NOTE: If no suppressor is indicated for a pentode, a beam forming plate is connected to each filament

(Red Dot) 1234567 FIL V

CK534 : P2-1S : .625 : Signal Amp Pentode (test as CK512)

```
%
% Michael A. Burke, Synetics Consultants
% PO Box 439, 11 Scenic Dr, Westminster, MA 01473
% 978-874-0908 mab@delphi.com
%
% Westminster is on the old Mohawk Indian Trail.
%
% With apologies to Will Rogers, "I never met a
% vacuum tube I didn't like" (well, almost never).
%
```

Date: Fri, 19 Sep 1997 22:53:59 -0400
From: Ed Tanton <n4xy@bellsouth.net>
To: kn6di@idt.net
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Best BA RX is under the table
Message-ID: <3.0.1.32.19970919225359.00a3c950@mail.atl.bellsouth.net>

Well you guys certainly have my mouth watering-especially since I bought one last week!

At 05:57 PM 9/19/97 -0700, Daniel H. Arney Jr. wrote:

>Greg Anders wrote:

>

>I have to agree with Greg my AR-88LF blows the socks off of all of the
>Recceivers in my shack including SS equip.I have
>75-A4.388-390-390A183D-125-NC-303-HQ-100,110,120,140,140X-170-180-Sp600-HRO
-50T-60-Hq200-SX100-101-RME-4350-BC-348-SP-200.

>

```
>AR88 is tops here.did not even tweak it
```

>Hank KN6DI

 \succ \succ

```
>> OK, I can't let this "best of breed" conversation go on any
```

```
>> longer
```

```
>> without introducing what I think is the best overall AM receiver ever
```

```
>> built.
>>
>>         Any model in the RCA AR88 family blows the socks off all of
>> the
>> following radios I have in my shack...
>>
>>         R390A
>>         SP600JX
>>         75A4
>>         HR050T
>>
>>         1. The AR88 is hot all the way to 10M
>>         2. The IF, when properly aligned provides excellent 8kc and
>> 4kc
>>             selectivity
>>         3. The audio is as smooth as any SX28,HR050 or SP600
>>         4. Its hands down the quietest receiver I own in QRN
>> conditions
>>         5. Its as stable and resetable as my A4 or R390A
>>
>>         Now, if it only had frequency resolution of the A4 or 390A it
>> would
>> be no contest in my mind...
>>
>>         But, as someone already said here, each radio has at least one
>>
>> shortcoming that makes it manditory to try em' all....
>>
>>         Just my $.0005
>>
>> --
>>
>>
>>         Greg Anders
>>
>>
>>         "If at first you don't succeed.....then skydiving is not for
>> you"
>>
>>
>>
>>         anders@autopsy.sgi.com
>>         KG6YV
>
>
>
>
>
```


Message-ID: <19970920041324.AAA9714@LOCALNAME>

At 01:51 AM 9/20/97 +0000, you wrote:

>Dave,

The round boss that sticks out and surrounds the shaft of the PW dial gearbox is eccentric. It engages the round hole in the knob unit. Being eccentric, the knob unit's inner dial rotates at a slightly different speed than the knob itself, changing the numbers in the little windows. The eccentric "boss/bearing" should be very slightly offset to the bottom of the gearbox. If it's not, someone might have taken the boss off (it's held on by 4 screws) and re-installed it wrong. You will have to install the knob on the shaft and boss, but DON'T tighten the setscrews! As you carefully rotate the outer knob (counterclockwise), the numbers should change in the windows. When the numbers decrease to "0", rotate in the opposite direction and it should take 10 turns to get to "500". Now tighten the setscrew and turn the knob counterclockwise again until the capacitor gang is closed. It may stop before you get to "0" again! Be careful! Loosen the setscrew again, turn the dial to "0" and tighten it up again. Now rotate in the opposite direction and see if the gang is fully open when the dial gets to "500". This should synchronize the dial, gearbox, and tuning gang to the proper position. Let me know how you make out. There is 2 small odd springs that hold the outer knob and the "number dial" (inner dial scale) together. You should be able to see them thru the holes in the number dial.

The dial is the brainchild of Jim Millen, who designed the HRO. The same Millen who left National and formed his own company and made VERY fine hardware and gear!

73,

E. V. Sandy Blaize, W5TVW

"Boat Anchors collected, restored, repaired, traded and used!"

417 Ridgewood Drive,

Metairie, LA., 70001

ebjr@worldnet.att.net

Looking for: Hallicrafters SR-75 Transceiver

RK-34(VT-224) tubes, Butternut HF2V antenna

Date: Sat, 20 Sep 1997 00:24:06 -0400

From: avidov@juno.com (avi aben)

To: boatanchors@theporch.com
Subject: Heath SG-8
Message-ID: <19970920.002619.6934.0.avidov@juno.com>

Wtb or swap Manual for Heath SG-8 RF Gen. of unknown vintage. 73

End of BOATANCHORS Digest 1683

>From ???@??? Sun Sep 21 12:03:26 1997
Message-Id: <199709202231.RAA14537@sco.theporch.com>
Date: Sat, 20 Sep 1997 17:30:58 CDT
Subject: BOATANCHORS digest 1684

BOATANCHORS Digest 1684

Topics covered in this issue include:

- 1) Re: The panadaptor lives...
by "Lawrence R. Ware" <lrware@pipeline.com>
- 2) HRO 500 Dial
by bill wilson <billo@nti.net>
- 3) Re: More Valiant 2 problems aaarrrrggghhh
by L & M <toneri@ils.net>
- 4) Results, No of 451S-1's Made
by n5off@w5ddl.aara.org
- 5) WTB: 75A3 cabinet or work-alike
by "Tom Bridgers" <Tarheel6@classic.msn.com>
- 6) Re: Results, No of 451S-1's Made
by Sandra L Knepper <slkst29+@pitt.edu>
- 7) Q-Probe for sale
by Peter Ferrand <petef@sprynet.com>
- 8) '49 TV: Scotchbrite YAY, Chem treatment neigh
by marty@aa4rm.radio.org (locale for Marty Reynolds)
- 9) cap "poof" much sadness
by leeboo@ct.net (Leon Wiltsey)
- 10) Hammarlund Super Pro 310
by lrm-brm@juno.com (Larry R. McGee)
- 11) Tandy Sale: twilight?
by MNHopkins@aol.com
- 12) Origin of the Swan name
by "Jim Zellmer" <zellmer@raccoon.com>
- 13) This Over-Quoting and Long Signatures
by listown@jackatak.theporch.com (List Admin/Owner Radio Mail Lists)
- 14) tube help again
by Bob Roehrig <broehrig@admin.aurora.edu>

- 15) Re: Origin of the Swan name
by Peter Ferrand <petef@sprynet.com>
- 16) WTB Gonset Communicator IV 6M
by w4bld@juno.com (Robert B. Kerby)
- 17) Hamfest Results
by Gary Harmon <gharmon@txdirect.net>
- 18) best BA rx
by KA9EGW@aol.com
- 19) Why so many SP-600 derivatives?
by bdhall@ghg.net (Benjamin D. Hall)
- 20) Teletype 120VDC Supply Needed
by Dick Dillman <ddillman@igc.apc.org>
- 21) Panadaptors
by Be H Tongue <bhtongue@mars.superlink.net>
- 22) Almost an SX-88-Long
by "Allan Fritsche" <fritsche@classic.msn.com>
- 23) R-390A - Z503
by "Allan Fritsche" <fritsche@classic.msn.com>
- 24) R-390A - Z503
by "Allan Fritsche" <fritsche@classic.msn.com>
- 25) Radio comparisons and anecdotes
by "Larry" <rau@wco.com>

Date: Fri, 19 Sep 1997 23:57:37 +0000
From: "Lawrence R. Ware" <lrware@pipeline.com>
To: boatanchors@sco.theporch.com
Subject: Re: The panadaptor lives...
Message-ID: <3.0.32.19970919235331.006e40ec@pop.pipeline.com>

A number of people have commented about what I wrote:

>Some kinda strange stuff, IF cans shorted with a cap from input side to
>output side, etc.... Bad IF can?, or poor mod? Only time will tell.
>

Comments included:

>This is probably an overcoupling mod to widen an existing IF
>transformer's bandwidth.

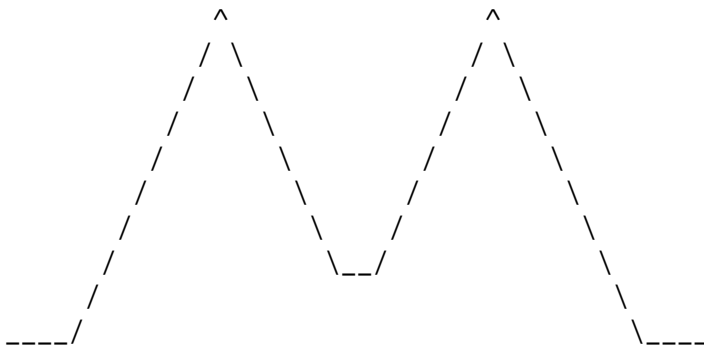
>Possibly "as designed", to get that 100kc bandwidth.

>Non linear response might be a feature. The RBU panadaptors
>(designed for use with the RBB and RBC superhets in WWII)
>had a passband response that was the *inverse* of the
>receiver's passband response so that the sum total

>would be a flat passband. That allowed them to have a
>relatively flat passband well beyond the nominal
>selectivity limits of the receiver.

Having had a little time to think about it the idea of an highly over-coupled circuit to produce a dip in response and thus correct for the RF tuning stages ahead of a receiver mixer makes a lot of sense. :-)
My only National with a panadaptor output, takes it from the plate of the first mixer stage...

Response would look something like this:



It would be the inverse of a normal IF response curve, in that center frequency was not the peak, summed properly with the curves of the RF pre selector(s) the overall response would approximate a flat line... very cool! Learn something new every day... :-)

I've been playing with the panadaptor most of the evening, Some interesting notes: There is a nu-vistor stage in the input front end, but it is not connected. Does nor appear to have ever been. Genuine 6CW4. About 1959-61? This unit has had a least two owner/tinkerers: gent who built it, was a real old time craftsman, quality of his work and construction looks like it came right out of an ARRL manual or textbook photo shoot. Next person, or persons, used a 200 watt iron to make mods... Or perhaps trying to fix it. :-)

It appears to have been an experimental workbench for the first builder. Built in modules, each module seems to be designed for easy replacement. Lots of extra, never used terminal strips and turret terminals. The kind of early point to point wiring you often see in very old HP gear, the passive parts mounted between turret pins on little boards, all in neat rows. All power resistors mounted with long through the center screws to the chassis, and neatly dressed, fabricated shields built around certain circuits. Very short and neatly dressed signal paths, with tiny coax interconnecting the stages. All the wiring nicely laced into harnesses. Very neat. :-)
Three different V-reg tubes in the power supplies. Lots of heavy duty

parts... Huge power mil spec sealed power transformer...
I could really get to like the gent who built this thing. A man after
my own heart.

Whoever came later, I could shoot. You can see where he has been just
by looking at the quality of the soldering... :-(

The more I study this, the less I expect it came out of handbook or
magazine article. In some ways it is too well built... I begin to
suspect this was a labor of love for a real old time design engineer.

I'll keep everyone posted as I work my way through this lovely old
thing....

-Larry Ware
lrware@pipeline.com
Orlando, Florida

Date: Sat, 20 Sep 1997 06:53:29 -0500
From: bill wilson <billo@nti.net>
To: boatanchors@theporch.com
Subject: HRO 500 Dial
Message-ID: <19970920115328347.AAA72@NOTORIOUS>

Recently at a hamfest I was milling around and there were no tube BA's worth
getting so I had to settle for a HRO-500. It's main tuning dial is a bit
different than say the HRO-50. It has the addition of another knob on the
front of the whole thing for very fine tuning. I know this rig is a bit off
topic (the only thing that glows are the dial lights) but I was also needing
a bit of help with the radio. It was working fine then the PLL quit on
it...I'm waiting on the manual for trouble shooting (all electrolytics have
been replaced). I was looking for any tips/hints/trivia on the set. While
the rig was working it was one nice performing rig.

Thanks in advance,

Bill
W4BIZ
Jacksonville, Al.

Date: Sat, 20 Sep 1997 07:55:58 -0500 (GMT-0500)

From: L & M <toneri@ils.net>
To: 4CX250B@miavx1.acs.muohio.edu
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: More Valiant 2 problems aaarrirggghhh
Message-ID: <199709201255.HAA13483@server1.ils.net>

At 07:52 AM 9/18/97 -0400, Jim Garland W8ZR wrote:

>Re the short in the LV supply, I'd begin trouble-shooting by pulling out
>all the tubes and checking the resistance to ground. With any luck, you
>might only have a shorted tube.

>

Hi Jim. I found the short in the low voltage B+ line. The socket on the rear apron was damaged and no longer had a keyway allowing the jumper plug to be inserted any which way. Of course it was the plug that had shorted the B+ to ground. I found that one after removing the filter cap and choke from the supply. When I plugged all the tubes back in and turned the rig on, it worked perfectly. I have made a few QSO's with it and so far it is working fine except for low grid drive on 15 metres, but I know where that problem is and I'm not too worried about it.

73...Mike

Mike & Lynda Toneri E-mail: toneri@ils.net

Keswick, Ontario

WEBPAGE: <http://www.geocities.com/heartland/meadows/8218>

Date: Sat, 20 Sep 1997 12:27:28 UTC
From: n5off@w5ddl.aara.org
To: boatanchors@theporch.com
Subject: Results, No of 451S-1's Made
Message-ID: <87464@w5ddl.aara.org>

I received many replies on this, figures of 4, 10 and 14.

In conclusion, it was not 150 units or something like that, so unlikely I'll find one under the table at a 'fest.

Thanks for the replies.

73 Tom

Reply to:

Email	(home)	n5off@w5ddl.aara.org
Email	(home)	trinit69@idt.net

Lafayette, LA
R-390A Repro Nametags Available FS

Date: Sat, 20 Sep 97 12:22:52 UT
From: "Tom Bridgers" <Tarheel6@classic.msn.com>
To: boatanchors@theporch.com
Subject: WTB: 75A3 cabinet or work-alike
Message-ID: <UPMAIL09.199709201236270671@classic.msn.com>

Fellow anchorites--

Am in the process of buying an un-cabineted 75A3 from a listmember and need one for it. Will consider a cabinet in any condition, or a cabinet that fits the A3, but may not be Collins. Again, in any condition is fine.

Any leads on a cabinet that others might have would be appreciated, too.
Thanks in advance and 73's
-tom

Date: Sat, 20 Sep 1997 08:57:58 -0400 (EDT)
From: Sandra L Knepper <slkst29+@pitt.edu>
To: n5off@w5ddl.aara.org
Cc: Old Tube Radios <boatanchors@theporch.com>, owner-boatanchors@theporch.com
Subject: Re: Results, No of 451S-1's Made
Message-ID: <Pine.GS0.3.96L.970920085609.7195G-100000@unixs2.cis.pitt.edu>

To those who are curious about the number of 451S-1's made should consult Dennis Day who lives in Cedar Rapids. Dennis is undoubtedly the best source of information of Collins production that I know. If he doesn't have the answer, he will know the person who does!

Dave, W3BJZ
Publisher of the Collins Journal

Date: Sat, 20 Sep 1997 09:26:54 -0400
From: Peter Ferrand <petef@sprynet.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Q-Probe for sale
Message-ID: <3423CF1E.AB64DF1B@sprynet.com>

Q-Probe?

This is a fascinating little device to allow the use of a cheap general purpose scope to look at HF waveforms only a few miliwatts strong.

Made by Transitron in Manchester, NH, only about 15 miles North of here, the Q-Probe is built into a painted large IF can. It's a very cleverly designed all band tuner with a vernier drive dual section capacitor and a diode takeoff.

The idea is that you use a 3/4" closed loop on the end of a piece of coax (supplied) and plug this into the Q-Probe. The loop is positioned near the tube or coil you're measuring. The manual suggests an inch or two of deflection from the grid circuit of a 5763.

You use short lengths of bus wire to connect the Q-Probe to the scope's deflection plates, and the diode takeoff is connected to the sync input of the scope.

By using a high Q tuned circuit, only a few milliwatts of rf around a transmitter or receiver are needed to provide the 50 or 100 needed for scope deflection through the plates.

I rarely come across something that's in new-in-the-box condition, but this comes with its cardboard box and manual folded up inside, and looks like it was never used until I removed it, just to try out once. It works amazingly well. Just one of those things I need the money for more than I need the unit.

Price \$40 plus \$5 shipping if needed from Nashua NH anywhere in the US.

tnx es 73,
-Pete
WB2QLL
petef@sprynet.com
(603)889-1067

Date: Sat, 20 Sep 1997 09:36:48 -0400
From: marty@aa4rm.radio.org (locale for Marty Reynolds)
To: boatanchors@theporch.com
Subject: '49 TV: Scotchbrite YAY, Chem treatment neigh
Message-ID: <199709201336.JAA02636@aa4rm>

The debris studio has just rolled out a 1949 Admiral TV. It's got about the same tube count as an R390 so oughta be eligible for editorial comment... and I did it for a friend (W4MEW, u great guy, take note - karma balance!)

Well I did it by pulling all the tubes except the 5U4 then seriesed a 20K ww between it and the rest of the ckt. to "bring the cap.s back" and identify the bad papers. A dud electrolytic can section showed right up which was disconnected. Then a series of hi leakage caps emerged - evidenced by odd drops across resistors, etc. Well changing those out brought it to plug-in time some 2 hours after start.

It worked right away!

So don't turn ur back on grandma's TV, u can get it going one night right after dinner this way using this simple, proper technique!!! Less time than's needed to "shotgun replace" all the parts in an American 5 table radio.

I didn't mention that sensitivity awful, pic linearity & sync stability poor tho.

Detailing time. Substituted OK used tubes for obvious no-emission examples. Stability & bad linearity due to vert'l osc. feedback / vert. amp coupling deal. Change out got it in OK shape. Clean-up did appearance wonders too.

BUT

Standard coil tuner was touchy and carbon tet (rteal stuff) only stupidly soaked everything.

This thing was so old there wasn't even a tuner bottom cover so then came scotchbrite. Took only 5 min to pretty-up all 12 channels worth of "dual strips / contact buttons."

Total time was 3 nites / 14 hours, 6 paper caps, 5 tubes, 1 electrolytic, and 10 ccs of 10W30 to neutralize mouse pee corrosion all over the chassis. (This latter the equiv. of the "Partridge in a pear tree" in the 12 days) Tho there's a sweep gen here & Sams waveforms, no alignmet req'd - so slug tweakers TAKE NOTE.

The whole set's now rock solid & probably ready for years of service in a 50s-retro bar - or 'til the 12LP4 goes out.

Give grocery store scotchbrite a chance on silver contacts!

Marty

ANNNNNND. There sure were some neat trix in this thing - like audio out 6AS6 is also a series regulator for all the IF & RF tubes. Focus coil used as choke (like spkr field) spanned by ww pot that's focus ctl. Pot slider (not SF) routs some of set B+ & hence varies I thru same focus coil. Etc, etc.

Gotta respect the competitive design process.

HEY DOES ANYONE HAVE A PONG GAME TO USE WITH THIS TURTLE????

Date: Sat, 20 Sep 1997 10:54:27 -0400 (EDT)
From: leeboo@ct.net (Leon Wiltsey)
To: BOATANCHORS@SCO.THEPORCH.COM
Subject: cap "poof" much sadness
Message-ID: <199709201454.KAA10968@blue.ct.net>

Hi Gang

While using my trusty hw16 last night I got a crash and then smoke, as one of the filters went south. It is a 4 section 40 -50-80-80 at 350v the main filter for the rec section. If anybody has a junker hw-16 and can send me

the main filter cap,would certainly appreciate it. Will pay any reasonable costs. This is my main station equipment, so am out of business now.

THANK THE LORD FOR ALL YOU HAVE

68 yr old semidisabled senior
(stroke got my balance & hand to eye coordination)
ham agn as KF4RCL TECK+ (MUCH HAPPINESS)
BUILD MOST STATION EQUIP
SUB.BA & GB-- NO SOLID STATE

LEON B WILTSEY (Lee) tel. 941 471 3739
4600 Lake Haven BLVD.
Sebring, Fl. 33872 (SEBRING) WHERE THERE IS NO QRM FROM THE LOCALS

Date: Sat, 20 Sep 1997 09:43:32 EDT
From: lrm-brm@juno.com (Larry R. McGee)
To: boatanchors@theporch.com
Subject: Hammarlund Super Pro 310
Message-ID: <19970920.084230.7463.0.LRM-BRM@juno.com>

Hello and thanks for reading this. I have a very nicely restored 310 that is all complete except for the emblem on the front panel, just below the dial that says that it is a Pro 310. I would like to buy this emblem if there is one available. Thanks for any consideration that you give this request. Larry McGee in Northern IL, (815) 784-5186 and a collect phone call would be accepted.

Date: Sat, 20 Sep 1997 09:44:56 -0400 (EDT)
From: MNHopkins@aol.com
To: Boatanchors@theporch.com
Subject: Tandy Sale: twilight?
Message-ID: <970920094454_1230441864@emout17.mail.aol.com>

North Texas' monthly meeting of hams and others at the Tandy Corporatin's national warehouse today can only be said to have had a Wagnerian aire.

When good light shown on the offerings, only two qualified in the vintage vacuum tube category: an cleaned up HQ-100 and a spiffy Swan Cygnet 300, both offered by area professional traders. That was it, two items for \$100 each asked. There were no drive ins from Denton, no wanderers from Waco and no freebooters from Frisco -- just the same tired old bunch waiting for something; perhaps Gotterdamarung?

Of course there were the usual piles of computer detritus, and 11M offerings included two Siltronics (aka Swan) Commanche 1011Ds, a MaCo PA and a perennially appearing Varmint Linear XL-250. But these auxillaries fared no better as rumors circulated about the impending death of Dallas-Fort Worth's 2d Saturday event at nearby Hardin's Electronics.

Perhaps only supernatural intervention can can save these tired old warriors.

And maybe the Valcryries will swoop down and carry them all South on I-35
October 4 to the yearly meeting at Belton, Texas.

de ab5l, michael in dallas, a student of Tecraft, International Crystal and
momentoes of 6M's Golden Age, 1957-58 MNHopkins@AOL.com

Date: Sat, 20 Sep 1997 09:07:16 -0500
From: "Jim Zellmer" <zellmer@raccoon.com>
To: "boatanchors digest" <boatanchors@sco.theporch.com>
Subject: Origin of the Swan name
Message-ID: <199709201342.IAA00863@slip1.raccoon.com>

I have been working on an old Swan 500c lately. As I remember, Swan
Electornics was started
by Herb Johnson and produced a number of amateur transceiver. I always
wondered where the
name "Swan" came from. Can any one in Boat Anchor land shed some light on
this?

TNX 73 ES GOD BLESS U ES URS

JIM ZELLMER, KA0VSL

Date: Sat, 20 Sep 1997 8:47:49 -0500 (CDT)
From: listown@jackatak.theporch.com (List Admin/Owner Radio Mail Lists)
To: boatanchors@sco.theporch.com
Subject: This Over-Quoting and Long Signatures
Message-ID: <199709201347.IAA18314@jackatak.theporch.com>

Gang-

This is an announcement, not a subtle suggestion...

For those who think they are exempt from the guidelines for *NOT*
quoting an entire message for a "Me, too!" comment... I hope you enjoy
your protracted stay in the penalty box...

For those of you who ignore the periodic postings about too frequent
for sale posts, I will try to keep your cells in the penalty box
separate from the folks in there for over-quoting...

And, for those who feel a 20-line, 2KB signature is necessary, you
will have plenty of time in solitary to whittle it down a tad...

I have tried the gentle approach, because I am told everyone is an adult and should be treated that way.... Well, I have been watching, and the behaviors have slid toward worse, not toward better on the scale, so now my methods get the nod....

BE WARNED AND AWARE:

We have the finest signal to noise ratio on the internet. ANYONE who pollutes the list, with a long signature, with an unwillingness to edit out the included text (generally caused by a hugely inflated view of self-importance -- "My time is too valuable to edit that" -- even though it is but a simple "click-drag-delete" to cut the garbage out) or who tries to start or who jumps into a flamewar or personal attack *WILL* be placed in the penalty box, and Multiple Offenders will be purged from the list!

I HAVE HAD ENOUGH!!!!

The list is for discussing BoatAnchors, those marvelous old radios of yesteryear, whose FireBottle glow warms our hearts and shacks... those who would try to migrate it to a mid-eastern Bazaar can go elsewhere, as can those who would ignore the basic principles you agreed to uphold when you subscribed.

Back to FireBottles... Front coming through and I need the warmth! ;^)

--

73

Jack, W4KH/Mobile - - - Mailing List Archiver/Owner - - -
listown@jackatak.theporch.com - "Plus ca change, plus c'est la meme chose"

Date: Sat, 20 Sep 1997 09:27:56 -0500 (CDT)
From: Bob Roehrig <broehrig@admin.aurora.edu>
To: Boatanchors <boatanchors@sco.theporch.com>,
glowbugs <glowbugs@www.atl.org>
Subject: tube help again
Message-ID: <Pine.ULT.3.96.970920092637.7455B-100000@admin.aurora.edu>

Another tube, which I have many of but can't find the specs for is a 6AM6 made by Mullard. Any help appreciated.

E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL
630-844-4898 Fax 630-844-5530

Date: Sat, 20 Sep 1997 11:29:13 -0400
From: Peter Ferrand <petef@sprynet.com>
To: zellmer@raccoon.com
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Origin of the Swan name
Message-ID: <3423EBC9.D270409C@sprynet.com>

Jim Zellmer wrote:
I always

> wondered where the
> name "Swan" came from. Can any one in Boat Anchor land shed some light on
> this?
>

Herb Johnson used to say that he got the name from Americanizing his father's
name, which was "Sven".

-Pete
WB2QLL
petef@sprynet.com

Date: Sat, 20 Sep 1997 11:56:24 EDT
From: w4bld@juno.com (Robert B. Kerby)
To: boatanchors@theporch.com
Subject: WTB Gonset Communicator IV 6M
Message-ID: <19970920.115517.5015.15.W4BLD@juno.com>

Hello gang- This is a super group of people: I have purchased a 2M
version of the Communicator. Now, does anyone have a 6M version of the IV
for sale or trade? Thanks, Bob

Robert B. Kerby - w4bld@juno.com
PO Box 991 (231 Rosser Avenue)
Waynesboro, VA 22980 (540) 942-4356
Collect: Morrow, Gonset, Elmac

Date: Sat, 20 Sep 1997 13:10:44 -0500
From: Gary Harmon <gharmon@txdirect.net>
To: HEATH@LISTSERV.TEMPE.GOV
Cc: boatanchors@theporch.com
Subject: Hamfest Results
Message-ID: <3.0.3.32.19970920131044.006bfa40@mail.txdirect.net>

Seguine, TX had their annual but small hamfest today at the Elks' Lodge.
About 10 private vendors and maybe 100 lookers. Not much there but I did
manage to drag the following home:

Heath SA-2060A tuner
Heath HM-2102 VHF meter
Heath IP-18 power supply
Heath HD-1410 keyer
Gonset Super 6 converter
MFJ 1229 digital interface
Vibroplex Lightening Bug (rough, probably parts only)

Belton in 2 weeks, Houston after that. I love this hobby!!!

73,
gary

=====
Gary H. Harmon, Jr., K5JWK
6302 Robin Forest
San Antonio, TX 78239-3218
(210) 657-1549
gharmon@txdirect.net

+Too Many Projects, Not Enough Time!
++Better to Have and Not Need than to Need and Not Have!
+++Pack Unto Others As You Would Have Them Pack Unto You!

=====

Date: Sat, 20 Sep 1997 14:16:58 -0400 (EDT)
From: KA9EGW@aol.com
To: boatanchors@theporch.com
Subject: best BA rx
Message-ID: <970920141400_710361732@emout08.mail.aol.com>

OK...my criteria are:

- 1) Stable
- 2) Sensitive

- 3) Selective
- 4) User-friendly (freq resettability/accuracy--to freq-meter standards)
- 5) High resistance to overload
- 6) Ease of tuning
- 7) Repairable (no weird hard-to-find tubes or impossible mechanisms--sorry 390A guys)
- 8) Rack mount
- 9) General coverage (I'm an SWL/BCL too)

And for my money, the winner and still champion?
the 51J series...with the 75A series #2, and the HQ129X #3.

73 de KA9EGW

Date: Sat, 20 Sep 1997 15:07:17 -0500
From: bdhall@ghg.net (Benjamin D. Hall)
To: BoatAnchors@SCO.ThePorch.Com
Subject: Why so many SP-600 derivatives?
Message-ID: <3.0.32.19970920150712.00687918@mailman.ghgcorp.com>

Greetings everyone! Last night while watching TV after a long and tiring week, I got to thinking about Boatanchors. (what else is new?) Specifically, the Hammarlund SP-600 series.

A quick look at Jose Gavila's SP-600 data webpage (http://www.geocities.com/SiliconValley/6992/sp600_2.htm) reveals that our subscribers here on BA own a dizzying array of SP-600 variations:

SP-600-J, SP-600-J-3, SP-600-JL, SP-600-JL-16, R274/FRR Order 3376-PHILA-52, SP-600-JLX-2B, SP-600-JX Order 1689 PHILA-51-01, SP-600-JX-1, SP-600-JX-6, SP-600-JX-10, SP-600-JX-14, SP-600-JX-17, SP-600-JX-26, R-274C/FRR Order 3376-PHILA-52, SP-600-JX-37.

That is 15 distinct models. Moore's book lists more. Why so many models? We know that Hammarlund numbered the serial numbers of all radios sequentially without regard to model number, so we can make the conclusion that Hammarlund made many of these models at the same time.

My theory: I've noticed that Hammarlund, of the many BA manufacturers, was the one that changed or added a suffix to the model number when making even the slightest change. For instance, you can look at the HQ-180 series. There is the HQ-180, the HQ-180A with solid state rectifiers, HQ-180AC which is the A version with clock, and on and on. So, I'd guess that whenever Hammarlund made a small engineering change, they changed the JX-number. The X designation added a crystal deck, and the JX-37 had special 25 Hz transformers. It has been theorized that the JX-17 was a

diversity model, but I own two of them, and one is a diversity model with the IF gain control (which looks factory) and the other has the dial lock! Of course, the IF gain may be a mod. So, when someone wanted a crystal dack, Hammarlund made it and added the X. Diversity you want? JX-17. Etc.

I find it interesting that another long lived radio, the R-390 and A series, which also went thru engineering changes (for instance, my 14-PH-56 Motorola has MWO-II-5820-294-35/2 stenciled on the front), *doesn't* have the same many name changes. Why no R-390B/URR?

Theories and discussion welcome!

Thanks and 73,

Ben

Benjamin D. Hall, KD5BYB (yes, the FCC finally issued my call!)
Engine and radio collector / operator extraordinaire.
Located in Houston, Texas, United States of America.
e-mail: BDHall@ghg.net web: <http://www.ghgcorp.com/bdhall>

Date: Sat, 20 Sep 1997 13:33:39 -0700 (PDT)
From: Dick Dillman <ddillman@igc.apc.org>
To: boatanchors@theporch.com
Subject: Teletype 120VDC Supply Needed
Message-ID: <2.2.16.19970920133124.4687e3a4@pop.igc.org>

Greetings folks. Given the list's reputation for unearthing the impossible to find I thought I'd throw this out as a challenge:

I need 1 ea. Power Supply, Teletype model REC-32, input 115VAC, output 120VDC at 1.2A.

This is the correct supply for the Teletype (Kleinschmidt) Wheatstone Morse perforator I found (after 20 years of thwarted lust) a couple of months ago at Foothill. The perforator resides in all its wooden-cased splendor in my living room on a very fitting table from a model 26 page printer. But I know the guests at my next party will want to perforate some tapes so I'd like to get it going!

Looking also for a Creed or similar head to read the punched tapes and rolls of 1/2" paper tape.

All offers, leads, ideas or suggestions gratefully accepted.

Regards,

Dick

Dick Dillman
<ddillman@igc.apc.org>
WPE2VT W6AWO
Collector Of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

Date: Sat, 20 Sep 1997 17:27:04 -0400
From: Be H Tongue <bhtongue@mars.superlink.net>
To: "boatanchors@sco.theporch.com" <boatanchors@sco.theporch.com>
Subject: Panadaptors
Message-ID: <34243FA7.84E1565E@mars.superlink.net>

>Good evening firebottle fans:
>Once again I have a problem and my solution is to ask
>the collective list wisdom... :-)
>
>I picked up a home brew panadaptor at Shelby this year.
>I was told it was based on a ARRL handbook article, the \$64 questions
>are: Which one? And will somebody photocopy the article for me?
>Could perhaps of been the "West Coast" handbook, instead of the
>ARRL version. Maybe QST or even CQ... I'm not sure where the heck it
>came from... :-) But I haven't found it in my limited handbook
>collection.
>
>It has a 1P47 CRT in it, appears to be a complete Crosley brand
>sub assembly, but could of been "lifted" from something else.
>Also has what appears to be a crystal filter deck based on 200KC
>crystals and 12AX7 firebottles. Among the front panel controls are:
>Sweep width step, 2, 20, or 100KC.
>Resolution, 5, 10, or 2KC.
>
>Had a chance to play with it finally: Darn thing almost works!
>Ran it up on the Varic after installing a new 3-wire power cord and
>fuse holder...
>Got a pretty blue long persistence (P-7?) trace, and can see a 455 kHz
>input... <very good news!>
>Trace is way out of cal, lots of noise, non linear, etc. etc. <bad

news>

>

>The most interesting thing about this is the quality of mechanical

>construction, pretty enough for any handbook photos. :-)

>Electrical construction is wonderful in some places, poor in others.

>Seems to have built up from sub-assemblies placed on small metal

>sheets then screwed into matching cutouts on the main chassis deck.

>Almost all wiring in harnesses, 90% very good soldering work, 10% very poor

>soldering with a *BIG* Iron.. :-(Appears someone tried to either

>fix it or modify it after the initial builder... :-(

>Some kinda strange stuff, IF cans shorted with a cap from input side to

>output side, etc.... Bad IF can?, or poor mod? Only time will tell.

>

>I would very much like to get this poor thing fixed up and working

>properly again. But I need to know what is proper for it...

>

>Can someone ID this beast?

>Can someone send me the docs?

>Inquiring BA collector wants to know...

>

>-Larry

Larry, I cannot ID the Panadaptor you have, but can say the following:

Panadaptors made by the Panoramic Radio Co. (they also made the Hallicrafters unit) were designed to be fed from the plate of a 455 kHz IF mixer tube thru a 47k resistor and into a two foot or so long piece of RG-58 cable. The cable was fed to an overcoupled double tuned IF transformer, a 6SG7 amplifier and to another overcoupled double tuned transformer, then to a mixer, fed with a sweeping LO, then to the unit's own IF. Your max sweep width indicates that the LO could sweep the Panadaptor 50kHz either side of the center frequency, so that a band 100kHz could be monitored.

The doubled tuned stages of your unit probable have response peaks at about 410 kHz and 510 kHz. Normal operation of the unit will probably show two noise peaks at the before mentioned frequencies. The overall response should show three peaks with the third middle peak supplied by your Communications receiver's first IF transformer's primary tuned circuit.

I was employed by the Panoramic Radio Corp. as an Engineer from 1945 to 1949.

Hope this helps.

Ben H. Tongue

Date: Mon, 20 Oct 97 21:48:39 UT
From: "Allan Fritsche" <fritsche@classic.msn.com>
To: boatanchors@theporch.com
Subject: Almost an SX-88-Long
Message-ID: <UPMAIL03.199709202150380503@classic.msn.com>

Hey gang, I never seem to fall into it, like some in the past.
One of my Technicians from New York was smoking and drinking a cup
with me the other morning and I mentioned that I collect tube radios.
He said Heck, I have a Hallicrafters, but it doesn't work... Excited
Now, I said does it have a sliderule panel and he said YES... I asked
him where he got it and he said in a garage sale in a Newark
auction for 2 dollars....I told him, bring it in the office and I will fix
for him...

Now that was Monday this week, never said anything else to him all week.
Now visions of getting a SX-88 for little or no money filled my mind
every night, maybe a SX-99 or some such for little or no money...
The dream of us all.

Well my dream was busted this Friday morning when he showed up with
the most filthy small Halli I have ever seen.. At first glance it was a
S-38E, and then I discovered it was an S-120, GOD even worse..
I looked at the thing and it looked back at me and said take me home
Daddy.. Why me GOD, I had about 12 inches of shelve left at home, but
I gave him 10 bucks for this miserable looking thing and brought it home
Friday nite.. I got home and opened the garage and there were my
SX-101 MKIII and HT-32 and the Valiant and many others setting in place
, waiting to serve... I took the little S-120 and set it down next to the
MKIII

thinking it might be a Momma Receiver and went upstairs for about 30
minutes. When I finally got back down to the shack, I noticed something
strange.. The S-Meter on the MK III had a small drip of water going down
from the bottom of the meter to chassis.

Now I don't believe in miracles, but the little S-120 looked cleaner in some
places like a dog licks its master...

I just closed the garage up and didn't look back...

MORE to come.

Al
fritsche@msn.com

Date: Mon, 20 Oct 97 21:48:48 UT
From: "Allan Fritsche" <fritsche@classic.msn.com>
To: boatanchors@theporch.com
Subject: R-390A - Z503
Message-ID: <UPMAIL03.199709202150390675@classic.msn.com>

Hey Gang, got a new Z-503 in the mail today, actually 4 new z-503's.
Thanks Gregg K3EWZ, too late to put in tonite but just looking in the
IF sub-chassis it looks like a bear to replace... I guess I got my work
cut out for me tommorow.
Anybody else need one of these guys for free.

Let me Know
Al
fritsche@msn.com

Date: Mon, 20 Oct 97 21:45:24 UT
From: "Allan Fritsche" <fritsche@classic.msn.com>
To: boatanchors@theporch.com, "Johnson" <robjohn@chesco.com>
Subject: R-390A - Z503
Message-ID: <UPMAIL03.199709202148230331@classic.msn.com>

Hello Gang, Got a new Z-503 Transformer from Greg K3EWZ today...
To late to put it in tonight, but Greg sent me (4) new units. I guess
thats enough for a lifetime, But does anyone need one to get a
R-390A up to snuff. It will be free.
BTW... THANKS GREG

Al
fritsche@msn.com

Date: Sat, 20 Sep 1997 16:27:08 -0700
From: "Larry" <rau@wco.com>
To: "boatanchors" <boatanchors@theporch.com>
Subject: Radio comparisons and anecdotes
Message-ID: <199709202230.PAA11207@shell.wco.com>

I find it remarkably silly that folks who have radio as a fairly serious
hobby continue to use anecdotal comparisons to compare radio.

Generally "my radio this and that" means about squat.

Few people who collect a lot of radios really overhaul, align and test them properly.. so what anecdotes end up being are the radio equivalent of " Edsels had weak tires.. I had two flat in mine in the same day !"

Not that learning about failure modes isn't important... but the specs and the use are what I would use to select a receiver.

I like my pizza with smoked chick.. the kids like pepperoni and no vegetables.. can we figure out which is the best ? Only in a limited sense.

so here's my pick.. let's graft them into one receiver...

NC-300 cause you can spin that dial and it won't stop until next Tuesday.
paint is nice too.

Hammarlunds for their cast aluminum front panel

R 390 for no frequency ambiguity

Zenith 15A3 for push pull parallel 6V6's and the big black dial with the green eye a real juke box

Collins A/J 4 series for all that crystal filter flexibility

RAL-7 what other TRF receiver could copy CW and side band and AM equally well ?

Sx-101 because it looks so automotive

75-S1 because it showed how it could and maybe should be done

Home brew one tube regen.. because they show how much can be done with so little

Morrow MBR-5 stable, 11 tubes with blanker and squelch, .1uv.

sensitivity.. high quality, smaller than a loaf of bread.. the incredible lightness of being first rate.

and how about my boyhood red plastic rocket crystal set ...solid state began it all ! (oops)

Larry W6WUH

End of BOATANCHORS Digest 1684
